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Sheet 1 of 3

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JUL 01 2002

In the Application of J. Neil SIMONSEN

Confirmation No. 6837

Serial No.: 09/881,556

Art Unit: ~~1653~~/645


Filed: June 14, 2001

Examiner: Unassigned

TECH CENTER 1600/29C

Title: CRYPTOSPORIDIUM PARVUM ANTIGENS, ANTIBODIES THERETO AND DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS THEREOF




U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
	AA-1	5,591,434	January 7, 1997	Jenkins et al.	—	—	

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES NO
	AB-1						

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
	AC-1	Arrowood et al., "Effect of Immune Colostrum and Orally Administered Antisporozoite Monoclonal Antibodies on the Outcome of <i>Cryptosporidium parvum</i> Infections in neonatal Mice," <i>Infect. Immun.</i> <u>57</u> (8):2283-2288 (1989)
	AD-1	Bjorneby et al., "Monoclonal Antibody Immunotherapy in Nude Mice Persistently Infected with <i>Cryptosporidium parvum</i> ," <i>Infect. Immun.</i> <u>59</u> (3):1172-1176 (1993)
	AE-1	Campbell et al., "Demonstration of Serum Antibodies to <i>Cryptosporidium</i> sp. In Normal and Immunodeficient Humans with Confirmed Infections," <i>Journal of Clinical Microbiology</i> <u>18</u> (1):165-169 (1983)

Examiner: MARK NAVARRO

Date Considered: 12/26/02

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Exam. Init.	Ref. Desig.	Description
~	AF-1	Doyle et al., "Anti-Cryptosporidium parvum Antibodies Inhibit Infectivity <i>In Vitro</i> and <i>In Vivo</i> ," <i>Infect. Immun.</i> <u>61</u> :4079-4084 (1993)
~	AG-1	Jenkins et al., "Cloning and Expression of a cDNA Encoding Epitopes Shared by 15-and 60-Kilodalton Proteins of <i>Cryptosporidium parvum</i> Sporozoites," <i>Infection and Immunity</i> <u>61</u> (6):2377-2382 (1993)
~	AH-1	Jenkins et al., "Cloning and Expression of cDanA Encoding an Antigenic <i>Cryptosporidium parvum</i> Protein," <i>Molecular and Biochemical Parasitology</i> <u>71</u> :149-152 (1995)
~	AI-1	Lillehoj et al., "CD8 <sup>+</sup> T Cell-Coccidia Interactions," <i>Parasitology Today</i> <u>10</u> :10-16 (1994)
~	AJ-1	Nina et al., "Analysis of Oocyst Wall and Sporozoite Antigens from Three <i>Cryptosporidium</i> Species," <i>Infection and Immunity</i> <u>60</u> (4):1509-1513 (1992)
	AK-1	Nord et al., "Treatment of AID Associated Cryptosporidiosis With Hyperimmune Colostrum From Cows Vaccinated with <i>Cryptosporidium</i> ," Fifth International Conference on Aids, Montreal, Quebec, May 1989
~	AL-1	Ortega-Mora et al., "Cross-Reactivity of Polyclonal Serum Antibodies Generated Against <i>Cryptosporidium parvum</i> Oocyst," <i>Infection and Immunity</i> <u>60</u> (8):3442-3445 (1992)
~	AM-1	Peeters et al., " <i>Cryptosporidium parvum</i> in Calves: Kinetics and Immunoblot Analysis of Specific Serum and Local Antibody Responses (Immunoglobulin A [IgA], IgG, and IgM) After Natural and Experimental Infections," <i>Infection and Immunity</i> <u>60</u> (6):2309-2316 (1992)

NOT CONSIDERED no page range

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Art Unit: 1653 1645

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Exam. Init.	Ref. Desig.	Description
	AN-1	Peterson et al., "Identification and Initial characterization of Five <i>Cryptosporidium parvum</i> Sporozoite Antigen Genes," <i>Infection and Immunity</i> <u>60</u> (6):2343-2348 (1992)
	AO-1	Ranucci et al., "Characterization and Immunolocalization of a <i>Cryptosporidium</i> Protein Containing Repeated Amino Acid Motifs," <i>Infection and Immunity</i> <u>61</u> (6):2347-2356 (1993)
	AP-1	Riggs et al., "Neutralization-Sensitive Epitopes Are Exposed on the Surface of Infectious <i>Cryptosporidium parvum</i> Sporozoites," <i>The Journal of Immunology</i> <u>143</u> (4):1340-1345 (1989)
	AQ-1	Tzipori et al., "Remission of Diarrhoea due to cryptosporidiosis in an Immunodeficient Child Treated with Hyperimmune Bove Colostrum," <i>British Medical Journal</i> <u>293</u> :1276-1277 (1986)
	AR-1	Ungar et al., "Cessation of <i>Cryptosporidium</i> -Associated Diarrhea in an Acquired Immunodeficiency Syndrome Patient After Treatment With Hyperimmune Bovine Colostrum," <i>Gastroenterology</i> <u>98</u> :486-489 (1990)
	AS-1	Whitmire et al., "Characterization of Bovine Cellular and Serum Antibody Responses during Infection by <i>Cryptosporidium parvum</i> ," <i>Infection and Immunity</i> <u>59</u> (3):990-995 (1991)

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Examiner: Mark Navarro

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## U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
	AA-2						

## FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES	NO
	AB-2	WO 98/07320A	February 26, 1998	PCT	—	—		

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
	AC-2	McDonald et al., "Localization of Parasite Antigens in Cryptosporidium Parvum-Infected Epithelial Cells Using Monoclonal Antibodies," <i>Parasitology</i> <u>110</u> :259-268 (1995)
	AD-2	Mead, J.R. et al., "Antigens of Cryptosporidium Sporozoites Recognized by Immune Sera of Infected Animals and Humans," <i>Journal of Parasitology</i> <u>74</u> (1):135-143 (1988)
	AE-2	Reperant, Jean-Michel et al., "Major Antigens of Cryptosporidium Parvum Recognized by Serum Antibodies from Different Infected Animal Species and Man," <i>Veterinary Parasitology</i> <u>55</u> (1-2):1-13 (1994)

Examiner: MARK NAVARRODate Considered: 12/06/02

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Exam. Init.	Ref. Desig.	Description
	AF-2	Strong, W.B. et al., "Cloning and Sequence Analysis of a Highly Polymorphic Cryptosporidium Parvum Gene Encoding a 60-Kilodalton Glycoprotein and Characterization of its 15-and 45-Kilodalton Zote Surface Antigen Products," <i>Infection and Immunity, American Society For Microbiology</i> , Washington, U.S. 68(7):4117-4134 (2000)
	<del>AG-2</del>	<del>Accession No. AF178459 "Neutralising Antigen 2 of Cryptosporidium Parvum Recognised by Human Immune Sera," XP002205089</del>
	<del>AH-2</del>	<del>Accession No. AF178460 "Neutralising Antigen 1 of C. Parvum Recognised by Human Immune Sera," XP002169444</del>
	AI-2	Accession No. AQ411949 "CpG 0925A CLOPWA <del>g</del> DMA1 C. Parvum Genomic, Genomic Survey Sequence," XP002205088
	AJ-2	<del>Accession No. AQ988925 "Cryptosporidium Parvum Genomic Clone 25A1A08NE," XP002194443</del>

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AVAILABILITY DATES.

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